United Nations

Framework Convention on Climate Change

FCCC/ASR/2018/POL

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English only

# Status report on the annual inventory of Poland

1. This status report was prepared by the secretariat pursuant to the annex to decision 22/CMP.1 in conjunction with decision 4/CMP.11, as part of the initial check of Poland's 2018 annual inventory, submitted in accordance with decisions 24/CP.19 and 15/CMP.1 in conjunction with decisions 3/CMP.11 and 2/CMP.8. It reflects the content of the 2018 annual inventory as submitted by the Party (dates of submission are provided in the tables on pages 2 and 3).

2. In this report, the following acronyms are used:

CRF: common reporting format
GHG: greenhouse gas
HWP: harvested wood products
IPPU: industrial processes and product use
KP-LULUCF: land use, land-use change and forestry activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol
LULUCF: land use, land-use change and forestry
NIR: national inventory report
SBDT: sectoral background data tables
SEF: standard electronic format

*Gases*

$CO_2$: carbon dioxide
$CH_4$: methane
$N_2O$: nitrous oxide
HFCs: hydrofluorocarbons
PFCs: perfluorocarbons
MIX: unspecified mix of HFCs and PFCs
$SF_6$: sulfur hexafluoride
$NF_3$: nitrogen trifluoride
NOx: nitrogen oxides
CO: carbon monoxide
NMVOCs: non-methane volatile organic compounds
$SO_2$: sulfur dioxide

*Kyoto Protocol units*

AAU: assigned amount unit
CER: certified emission reduction
ERU: emission reduction unit
lCER: long-term certified emission reduction
RMU: removal unit
tCER: temporary certified emission reduction

*Notation keys*

C: confidential
IE: included elsewhere
NA: not applicable
NE: not estimated
NO: not occurring

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| GREENHOUSE GAS INVENTORY SUBMISSION | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *General information* | | *Date of receipt* | | | *Date of resubmission* | | | *Comments* | | | | | | |
| | NIR | 10 April 2018 | | | 25 May 2018 | | | | | | | | | |
| | CRF tables[a] | 10 April 2018 | | | 25 May 2018 | | | | | | | | | |
| | Additional information[b] | | | | | | | | | | | | | |
| | CRF tables provided for years | 1988–2016 | | | | | | | | | | | | |
| | Base year or period[c] | 1988 | | | Base year for HFCs, PFCs and $SF_6$[d] | | | 1995 | | | Base year for $NF_3$[e] | | 2000 | |
| | Gases covered | $CO_2$ | $CH_4$ | $N_2O$ | HFCs | PFCs | MIX | $SF_6$ | $NF_3$ | $NO_X$ | CO | NMVOCs | | $SO_2$ |
| | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | ✓ |
| *NIR* | Description | The organization of the NIR generally follows the structure outlined in the "Guidelines for the preparation of national communications by Parties included in Annex I to the Convention, Part I: UNFCCC reporting guidelines on annual greenhouse gas inventories" (annex to decision 24/CP.19). | | | | | | | | | | | | |
| | Language | English | | | | | | | | | | | | |
| *CRF[f] tables* | Source categories accounting for 7% or more of Party's aggregate emissions from sources included in Annex A to the Kyoto Protocol | No missing source category accounting for 7% or more has been identified. | | | | | | | | | | | | |

[a] CRF tables are contained in annex II to decision 24/CP.19.

[b] Additional information can be any information submitted by the Party in conjunction with the NIR or CRF tables.

[c] Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or period of years other than 1990, in accordance with the provisions of Article 4, paragraph 6, of the Convention and decisions 9/CP.2 and 11/CP.4.

[d] A Party may select 1995 as the base year for HFCs, PFCs and $SF_6$ in accordance with Article 3, paragraph 8, of the Kyoto Protocol.

[e] A Party may select 1995 or 2000 as the base year for $NF_3$ in accordance with Article 3, paragraph 8 bis of the Doha Amendment.

[f] In accordance with decision 15/CMP.1, paragraph 3(b), in conjunction with decision 3/CMP.11.

| SUBMISSION OF SUPPLEMENTARY INFORMATION UNDER ARTICLE 7, PARAGRAPH 1, OF THE KYOTO PROTOCOL | | | | | |
|---|---|---|---|---|---|
| *Reporting of supplementary information* | | *Date of receipt* | *Date of resubmission* | *Comments* | |
| | KP-LULUCF information[a] | 10 April 2018 | 25 May 2018 | NIR chapter 11 | |
| | KP-LULUCF CRF tables[b] | 10 April 2018 | 25 May 2018 | KP-LULUCF CRF tables provided for years | 1988–2016 |
| | Information on Kyoto Protocol units (ERUs, CERs, RMUs and AAUs)[c] | 10 April 2018 | 25 May 2018 | NIR chapter 12 | |
| | SEF tables[d] with Kyoto Protocol units | 10 April 2018 | | Reported year: 2017<br>• SEF table for the first commitment period (reporting year 2017) submitted on 10 April 2018<br>• SEF table for the second commitment period (reporting year 2017) submitted on 10 April 2018 | |
| | Changes in national system[e] | 10 April 2018 | 25 May 2018 | NIR chapter 13 | |
| | Changes in national registry[e] | 10 April 2018 | 25 May 2018 | NIR chapter 14 | |
| | Minimization of adverse impacts[e] | 10 April 2018 | 25 May 2018 | NIR chapter 15 | |

[a] Parties are required to include in their annual submission information on anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, in accordance with decision 2/CMP.8, annex II, paragraphs 1–5.

[b] Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, forest management and, if any, elected activities under Article 3, paragraph 4. Parties may also elect to report these tables for the base year or 1990.

[c] Parties are required to include in their annual submission information on ERUs, CERs, tCERs, lCERs, AAUs and RMUs, in accordance with decision 15/CMP.1, annex, chapter I.E, in conjunction with annex II to decision 3/CMP.11,.

[d] As required by annex II to decision 3/CMP.11.

[e] The requirements for Parties to report on changes in the national system in accordance with Article 5, paragraph 1, of the Kyoto Protocol, changes in the national registry, and the minimization of adverse impacts in accordance with Article 3, paragraph 14, of the Kyoto Protocol, are set out in decision 15/CMP.1, annex, chapters I.F, I.G and I.H respectively, in conjunction with annex II to decision 3/CMP.11.

**PART I**

**Provision of information for the latest reported inventory year in the CRF tables: 2016**

| | | *Energy* | | *IPPU* | | *Agriculture* | | *LULUCF* | | *KP-LULUCF*[a] | | *Waste* | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| *Tables* | Sectoral report tables | 1 | ✓ | 2(I) | ✓ | 3 | ✓ | 4 | ✓ | NIR-1 | ✓ | 5 | ✓ |
| | | | | 2(II) | ✓ | | | | | | | | |
| | SBDT | 1.A(a) | ✓ | 2(I).A–H | ✓ | 3.A | ✓ | 4.1 | ✓ | NIR-2 | ✓ | 5.A | ✓ |
| | | 1.A(b) | ✓ | 2(II).B-H | ✓ | 3.B(a) | ✓ | 4.A | ✓ | NIR-3 | ✓ | 5.B | ✓ |
| | | 1.A(c) | ✓ | | | 3.B(b) | ✓ | 4.B | ✓ | 4(KP) Recalculations | ✓ | 5.C | ✓ |
| | | 1.A(d) | ✓ | | | 3.C | ✓ | 4.C | ✓ | 4(KP) | ✓ | 5.D | ✓ |
| | | 1.B.1 | ✓ | | | 3.D | ✓ | 4.D | ✓ | 4(KP-I)A.1 | ✓ | | |
| | | 1.B.2 | ✓ | | | 3.E | ✓ | 4.E | ✓ | 4(KP-I)A.1.1 | ✓ | | |
| | | 1.C | ✓ | | | 3.F | ✓ | 4.F | ✓ | 4(KP-I)A.2 | ✓ | | |
| | | 1.D | ✓ | | | 3.G-I | ✓ | 4(I) | ✓ | 4(KP-I)A.2.1 | ✓ | | |
| | | | | | | | | 4(II) | ✓ | 4(KP-I)B.1 | ✓ | | |
| | | | | | | | | 4(III) | ✓ | 4(KP-I)B.1.1 | ✓ | | |
| | | | | | | | | 4(IV) | ✓ | 4(KP-I)B.1.2 | | | |
| | | | | | | | | 4(V) | ✓ | 4(KP-I)B.1.3 | ✓ | | |
| | | | | | | | | | | 4(KP-I)B.2 | ✓ | | |
| | | | | | | | | | | 4(KP-I)B.3 | ✓ | | |
| | | | | | | | | | | 4(KP-I)B.4 | ✓ | | |
| | | | | | | | | | | 4(KP-I)B.5 | ✓ | | |
| | | | | | | | | | | 4(KP-I)C | ✓ | | |
| | | | | | | | | | | 4(KP-II)1 | ✓ | | |
| | | | | | | | | | | 4(KP-II)2 | ✓ | | |

**PART I**

**Provision of information for the latest reported inventory year in the CRF tables: 2016 (continued)**

| | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 4(KP-II)3 | ✓ | | | |
| | | | | | | 4(KP-II)4 | ✓ | | | |
| | | | | | | Accounting table | ✓ | | | |
| | Summary tables | Summary table 1.A | ✓ | Summary table 2 | ✓ | Summary table 3 | | ✓ | | |
| | Other tables | Table 6 (Indirect emissions of $N_2O$ and $CO_2$) | ✓ | Table 7 (Overview for key categories) | ✓ | Table 8 (Recalculation – recalculated data) | | | | |
| | | Table 9 (Completeness) | ✓ | Table 10 (Emission trends) | ✓ | | | | | |
| | Comments | Key categories are reported in the NIR and are consistent with those in CRF Table 7 | | | | | | | | |

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| *Totals* | *Provided for gases* | *$CO_2$* ✓ | *$CH_4$* ✓ | *$N_2O$* ✓ | *HFCs* ✓ | *PFCs* ✓ | *MIX* ✓ | *$SF_6$* ✓ | *$NF_3$* ✓ |
| | *Provided for years* | 1988–2016 | 1988–2016 | 1988–2016 | 1988–2016 | 1988–2016 | 1988–2016 | 1988–2016 | 1988–2016 |

| | | | | | |
|---|---|---|---|---|---|
| *$CO_2$* | *Comparison of $CO_2$ emissions from fuel combustion* | *Reference approach* | *Sectoral approach* | *Difference more than 2%* | *If difference is more than 2% explanation provided in CRF table 1.A(c)* |
| | | ✓ | ✓ | | |

| | | | | | |
|---|---|---|---|---|---|
| *HFCs and PFCs* | *Disaggregation by species* | *HFCs* | *PFCs* | | |
| | | ✓ | ✓ | | |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| *Notation keys* | *Used in* | *Summary table 1.A* | ✓ | *Sectoral report tables* | ✓ | *SBDT* | | ✓ |
| | Comments | | | | | | | |

[a] Parties are required to report anthropogenic GHG emissions by sources and removals by sinks from LULUCF activities under Article 3, paragraph 3, of the Kyoto Protocol, and, if any, elected activities under Article 3, paragraph 4, using the agreed CRF tables adopted under decision 6/CMP.9.

| PART II<br>Provision of CRF tables for years reported | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | *Years* | | | | | | | | | | | | | | |
| | | | | *Base year[a]* | *1990* | *1995* | *2000* | *2005* | *2006* | *2007* | *2008* | *2009* | *2010* | *2011* | *2012* | *2013* | *2014* | *2015* | *2016* | *Comments* |
| *Energy* | Sectoral report Table 1 | | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | *SBDT* | Table 1.A(a) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 1.A(b) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 1.A(c) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 1.A(d) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 1.B.1 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 1.B.2 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 1.C | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988–2016. For these years the notation key NO is used. |
| | | Table 1.D | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| *IPPU* | Sectoral report | Table 2(I) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 2(II) | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | *SBDT* | Table 2(I) A–H | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 2(II) B–H | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

**PART II**

**Provision of CRF tables for years reported (continued)**

| | | | *Years* | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | *Base year*[a] | *1990* | *1995* | *2000* | *2005* | *2006* | *2007* | *2008* | *2009* | *2010* | *2011* | *2012* | *2013* | *2014* | *2015* | *2016* | *Comments* |
| *Agriculture* | Sectoral report Table 3 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | *SBDT* | Table 3.A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 3.B(a) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 3.B(b) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 3.C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988–2016. For these years the notation key NO is used. |
| | | Table 3.D | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 3.E | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988–2016. For these years the notation key NO is used. |
| | | Table 3.F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 3.G-I | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |



FCCC/ASR/2018/POL

**PART II**

**Provision of CRF tables for years reported (continued)**

| | | | Years | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Base year[a] | 1990 | 1995 | 2000 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Comments |
| LULUCF | Sectoral report: Table 4 | | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | SRDT | Table 4.1 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4.A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4.B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4.C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4.D | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4.E | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4.F | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4.G | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4(I) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988–2016. For these years the notation keys IE, NA and NO are used. |
| | | Table 4(II) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988–2016. For these years the notation key NA is used. |
| | | Table 4(III) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4(IV) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988–2016. For these years the notation key IE is used. |
| | | Table 4(V) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

**PART II**

**Provision of CRF tables for years reported (continued)**

| | | | Years | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | *Base year*[a] | *2013* | *2014* | *2015* | *2016* | *Comments* |
| *KP-LULUCF* | *Sectoral report* | Table NIR-1 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table NIR-2 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table NIR-3 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4(KP) Recalculations | ✓ | ✓ | ✓ | ✓ | | |
| | | Table 4(KP) | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | *SEF* | Table 4(KP-I)A.1 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988. For this year the notation key NA and NO is used. |
| | | Table 4(KP-I)A.1.1 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation key NA is used. |
| | | Table 4(KP-I)A.2 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988. For this year the notation key NO is used. |
| | | Table 4(KP-I)A.2.1 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation key NO is used. |
| | | Table 4(KP-I)B.1 | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4(KP-I)B.1.1 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988. For this year the notation key NA is used. |
| | | Table 4(KP-I)B.1.2 | | | | | | |
| | | Table 4(KP-I)B.1.3 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation key NA is used. |
| | | Table 4(KP-I)B.2 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation key NA is used. |
| | | Table 4(KP-I)B.3 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation key NA is used. |
| | | Table 4(KP-I)B.4 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation key NA is used. |
| | | Table 4(KP-I)B.5 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation key NA is used. |
| | | Table 4(KP-I)C | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 4(KP-II)1 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation keys NA and NO are used. |
| | | Table 4(KP-II)2 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988, 2013–2016. For these years the notation keys NA and NO are used. |

**PART II**

**Provision of CRF tables for years reported (continued)**

| | | | Years | | | | | |
|---|---|---|---|---|---|---|---|---|
| | | | Base year[a] | 2013 | 2014 | 2015 | 2016 | Comments |
| | | Table 4(KP-II)3 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988. For this year the notation key NA and NO is used |
| | | Table 4(KP-II)4 | ✓ | ✓ | ✓ | ✓ | ✓ | No numerical data are reported in this table for the years 1988. For this year the notation key NA and NO is used |
| | | Accounting table | ✓ | ✓ | ✓ | ✓ | ✓ | |

**PART II**

**Provision of CRF tables for years reported (continued)**

| | | | Years | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Base year[a] | 1990 | 1995 | 2000 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 | 2016 | Comments |
| Waste | | Sectoral report Table 5 | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | SWDT | Table 5.A | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 5.B | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 5.C | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | | Table 5.D | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

**PART II**

**Provision of CRF tables for years reported (continued)**

| | | *Years* | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *Base year*[a] | *1990* | *1995* | *2000* | *2005* | *2006* | *2007* | *2008* | *2009* | *2010* | *2011* | *2012* | *2013* | *2014* | *2015* | *2016* | *Comments* |
| *Summary and other tables* | Summary table 1.A (Report for national GHG inventories) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Summary table 2 ($CO_2$ equivalent emissions) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Summary table 3 (Methods and emission factors used) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Table 6 (Indirect emissions of $N_2O$ and $CO_2$) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Table 7 (Overview for key categories) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Table 8 (Recalculation – recalculated data) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | | |
| | Table 9 (Completeness) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |
| | Table 10 (Emission trends) | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | |

[a] Parties included in Annex I to the Convention undergoing the process of transition to a market economy may use a base year or period of years other than 1990 in accordance with the provisions of Article 4, paragraph 6, of the Convention and decision 24/CP.19.

| PART III<br>Provision of information relating to recalculations | | | | | | |
|---|---|---|---|---|---|---|
| Table 8 (Recalculation – recalculated data) | ✓ | Comments | Explanatory information relating to recalculations is provided in chapter 10 of the NIR | | | |
| Recalculation reported for years | 1988-2015 | | | | | |
| Recalculated sectors/gases | Energy | IPPU | Agriculture | LULUCF | Waste | KP-LULUCF |
| $CO_2$ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| $CH_4$ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| $N_2O$ | ✓ | | ✓ | ✓ | ✓ | ✓ |
| HFCs | | ✓ | | | | |
| PFCs | | | | | | |
| Unspecified mix of HFCs and PFCs | | | | | | |
| $SF_6$ | | | | | | |
| $NF_3$ | | | | | | |
| Percentage difference in aggregate GHG emissions | Base-year estimate[a] | Including LULUCF: | 0.06% | Excluding LULUCF: | -0.09% | |
| | Latest recalculated year[b] | Including LULUCF: | 0.26% | Excluding LULUCF: | -0.17% | |

[a] Parties included in Annex I to the Convention undergoing the process of transition to a market economy are allowed to use a base year or period of years other than 1990 in accordance with the provisions of Article 4, paragraph 6, of the Convention and decision 24/CP.19.

[b] The latest recalculated year is the submission year minus three years.

| PART IV<br>Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol (continued) | | | | |
|---|---|---|---|---|
| | | | *Provided* | *Observation* |
| *Reporting requirements under decision 2/CMP.8, annex II, paragraphs 1–5* | Emissions by sources and removals by sinks are clearly distinguished from emissions from categories included in Annex A to the Kyoto Protocol | | ✓ | |
| | Information on how inventory methodologies have been applied taking into account the *2006 IPCC Guidelines for National Greenhouse Gas Inventories* and any relevant supplementary guidance recognizing the principles laid out in decision 16/CMP.1 | | ✓ | |
| | Information on the geographical location of the boundaries of areas that encompass | | | |
| | | Units of land subject to activities under Article 3, paragraph 3 | ✓ | |
| | | Units of land subject to activities under Article 3, paragraph 3, which would otherwise be included in land subject to forest management or elected activities under Article 3, paragraph 4 | ✓ | |
| | | Land subject to forest management or elected activities under Article 3, paragraph 4 | ✓ | |
| | Information on the spatial assessment unit for determining the area of accounting for afforestation, reforestation and deforestation | | ✓ | |
| | Information on GHG emissions/removals resulting from activities under Article 3, paragraph 3, and Article 3, paragraph 4, for all geographical locations reported in the current and previous years since the beginning of the commitment period or the onset of the activity, whichever comes later | | ✓ | |
| | Information on carbon pools (above-ground/below-ground biomass, litter, dead wood and soil organic carbon) that are not accounted for | | ✓ | |
| | When a Party applies the provisions for natural disturbances, information demonstrating that these emissions in any single year exceed the background level(s), including a margin, where needed. For this purpose, the Party shall include information showing | | | |
| | | That all lands subject to exclusion due to natural disturbances are identified | ✓ | The Party does not apply the provisions for natural disturbances |
| | | How annual emissions resulting from natural disturbances and the subsequent removals are estimated and excluded from the accounting | ✓ | The Party does not apply the provisions for natural disturbances |
| | | That no land-use change has occurred on lands for which the provisions in decision 2/CMP.7, annex, paragraph 33, are applied | ✓ | The Party does not apply the provisions for natural disturbances |
| | | That events and circumstances were beyond the control of the Party | ✓ | The Party does not apply the provisions for natural disturbances |

**PART IV**

**Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol (continued)**

| | | *Provided* | *Observation* |
|---|---|---|---|
| | The efforts taken to rehabilitate the land for which the provisions contained in decision 2/CMP.7, annex, paragraph 33, are applied | ✓ | The Party does not apply the provisions for natural disturbances |
| | That emissions associated with salvage logging were not excluded from the accounting | ✓ | The Party does not apply the provisions for natural disturbances |
| If not accounted for by instantaneous oxidation, information on GHG emissions/removals resulting from changes in the HWP pool accounted for in accordance with decision 2/CMP.7, including | | | |
| | Activity data for the HWP categories used for estimating the pool removed from domestic forests, for domestic consumption and for export | ✓ | |
| | Half-lives used in estimating emissions/removals for the HWP categories used | ✓ | |
| | Whether emissions from HWP originating from forests prior to the start of the second commitment period have been included in the accounting, if the forest management reference level is based on a projection | ✓ | |
| | How emissions from the HWP pool accounted for in the first commitment period on the basis of instantaneous oxidation have been excluded from the accounting for the second commitment period | ✓ | |
| | How HWP resulting from deforestation has been accounted on the basis of instantaneous oxidation | ✓ | |
| | How CO2 emissions from HWP in solid waste disposal sites and from wood harvested for energy purposes have been accounted on the basis of instantaneous oxidation | ✓ | |
| | How emissions/removals from changes in the HWP pool accounted for do not include imported HWP | | Information required in paragraph 2(g)(vii) of annex II to decision 2/CMP.8 could not be identified in the submission |
| Information on anthropogenic GHG emissions from LULUCF activities under Article 3, paragraph 3, and Article 3, paragraph 4, factoring out removals from | | | |
| | Elevated $CO_2$ concentrations above pre-industrial levels | ✓ | |
| | Indirect nitrogen deposition | ✓ | |
| | The dynamic effects of age structure resulting from activities prior to 1 January 1990 | ✓ | |
| Specific information to be reported for activities under Article 3, paragraph 3 | | | |

**PART IV**

**Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol (continued)**

| | *Provided* | *Observation* |
|---|---|---|
| Activities that began on or after 1 January 1990 and before 31 December of the last year of the commitment period, and are directly human-induced | | Information required in paragraph 4(a) of annex II to decision 2/CMP.8 could not be identified in the submission |
| How harvesting or forest disturbance that is followed by the re-establishment of forest is distinguished from deforestation | ✓ | |
| Specific information to be reported for activities under Article 3, paragraph 4 | | |
| Activities that have occurred since 1 January 1990 and are human induced | ✓ | |
| Cropland management, grazing land management, revegetation, wetland drainage and rewetting: emissions/removals reported for each year of the commitment period and for the base year for each of the elected activities on the geographical locations reported | ✓ | The Party does not elect cropland management, grazing land management, revegetation, wetland drainage or rewetting |
| Emissions/removals from activities under Article 3, paragraph 4, are not accounted for under activities under Article 3, paragraph 3 | | Information required in paragraph 5(c) of annex II to decision 2/CMP.8 not not be identified in the submission |
| Information on how emissions arising from the conversion of natural forests to planted forests are accounted for | ✓ | |
| Methodological consistency between the reference level and reporting for forest management | ✓ | |
| Technical corrections made pursuant to decision 2/CMP.7, annex, paragraph 14 | ✓ | |
| Forest management: if emissions/removals from the harvest and conversion of forest plantations to non-forest land were included, information on how requirements set out in decision 2/CMP.7, annex, paragraphs 37–39 were met, including | | |
| The identification of all lands and associated carbon pools subject to decision 2/CMP.7, annex, paragraph 37, including the georeferenced location and year of conversion | | Information required in paragraph 5(g)(i) of annex II to decision 2/CMP.8 could not be identified in the NIR submission |
| A demonstration that the forest plantation was first established through direct human-induced planting and or seeding of non-forest land before 1 January 1990, and, if the forest plantation was re-established, that this last occurred on forest land through direct human-induced planting and/or seeding after 1 January 1960 | | Information required in paragraph 5(g)(ii) of annex II to decision 2/CMP.8 could not be identified in the NIR submission |
| A demonstration that a new forest of at least equivalent area to the harvested forest plantation is established through direct human-induced planting and/or seeding of non-forested land that did not contain forest on 31 December 1989 | | Information required in paragraph 5(g)(iii) of annex II to decision 2/CMP.8 could not be identified in the NIR submission |

| PART IV<br>Provision of information relating to KP-LULUCF activities under Article 3, paragraphs 3 and 4, of the Kyoto Protocol (continued) | | | | | |
|---|---|---|---|---|---|
| | | | | *Provided* | *Observation* |
| | | | A demonstration that this newly established forest will reach at least the equivalent carbon stock that was contained in the harvested forest plantation at the time of harvest, within the normal harvesting cycle of the harvested forest plantation, and, if not, a debit would be generated under Article 3, paragraph 4 | | Information required in paragraph 5(g)(iv) of annex II to decision 2/CMP.8 could not be identified in the NIR submission |